

Chassis No. SCC-81A-A

## **TRINITRON®** COLORTV

#### **SPECIFICATIONS**

TV-signal standards:

OIRT system

SECAM color system

Picture tube:

13" (measured diagonally) 90° deflection TRINITRON system

(Econoquick)

Semiconductors:

72 transistors, 57 diodes and 31C's

Antennas:

VHF: 300  $\Omega$  balanced (\*telescopic dipole antenna)

UHF: 300  $\Omega$  balanced

\*Note: Supplied with accessories

Channel coverage:

VHF: ch. R1  $\sim$  R12 UHF: ch. 21  $\sim$  68

Intermediate frequencies:

Picture i-f carrier: 38.9 MHz Color subcarrier: 34.47 MHz Sound i-f carrier: 32.4 MHz

Sound system:

6.5 MHz intercarrier

Output power: 1.2 W (at 10 % harmonic distortion) Speaker: 8 x 12 (cm) elliptical, 8  $\Omega$ 

Video system: RGB cathode drive

Automatic controls:

(automatic fine tuning) AGC (automatic gain control) AFC (automatic frequency control) ANC (automatic noise canceller) ABL (automatic brightness limiter) ACK (automatic color killer) (automatic degaussing) AVR (automatic voltage regulator)

220 Vac, 50 Hz Power requirements:

Power consumption:

Dimensions: 475 (w) x 321 (h) x 403 (d) mm

Net weight: 14.3 kg

VHF telescopic dipole antenna (AN14-E) Accessories:

Instruction manual

Anode voltage: 20 kV at zero beam current



#### WARNING!!

THIS CHASSIS OPERATES WITH ONE SIDE OF THE POWER LINE CONNECTED TO THE CHASSIS. TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

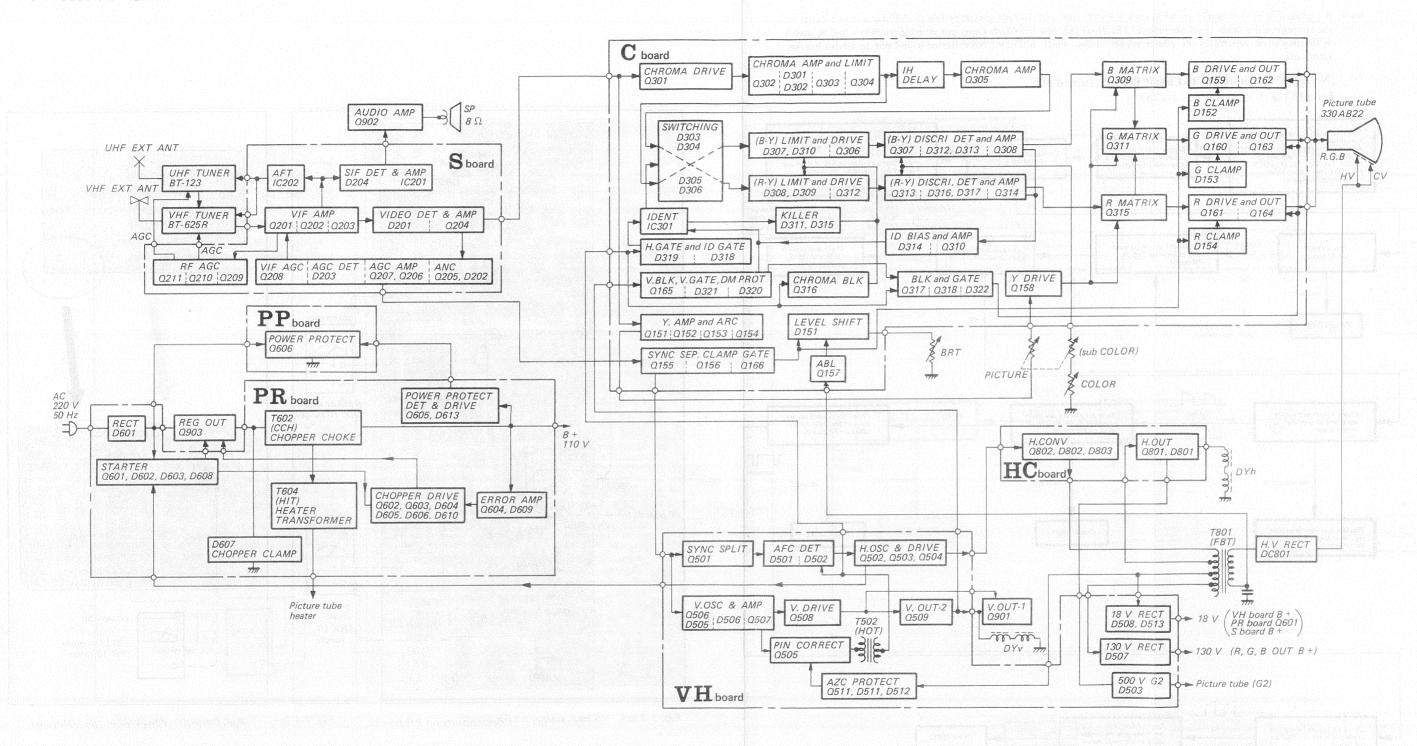
#### X-RAY RADIATION WARNING!!

BE SURE THAT PARTS REPLACEMENT IN THE HIGH VOLTAGE BLOCK AND ADJUSTMENTS MADE TO THE HIGH VOLTAGE CIRCUITS ARE CARRIED OUT PRECISELY IN ACCORDANCE WITH THE PROCEDURES GIVEN IN THIS MANUAL.

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	. #E

# SECTION 1 TECHNICAL DESCRIPTION

#### 1-1. BLOCK DIAGRAM

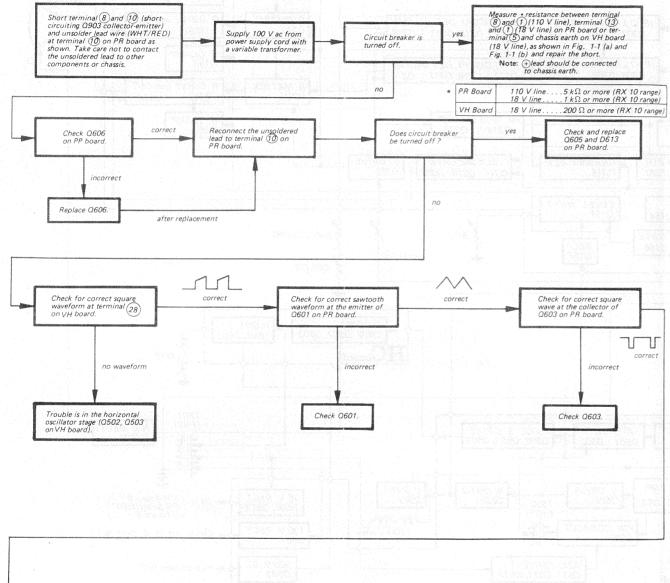


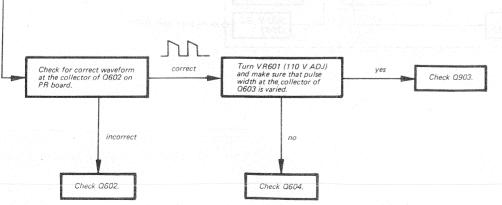
#### 1-2. TROUBLESHOOTING CHART

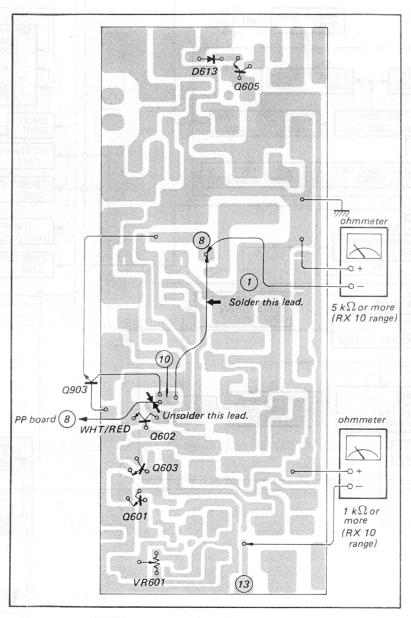
Note: A complicated power supply circuit is used in KV-1310R, and troubles caused by this circuit may not be located by the conventional voltage check technique. Therefore the new troubleshooting procedure given below will be useful in locating these failures in the power supply circuit which result in: No raster-no sound due to circuit breaker turned off.

[No raster, No sound due to Circuit Breaker Turned off]

Refer to Fig. 1-1 (a) and Fig. 1-1 (b)









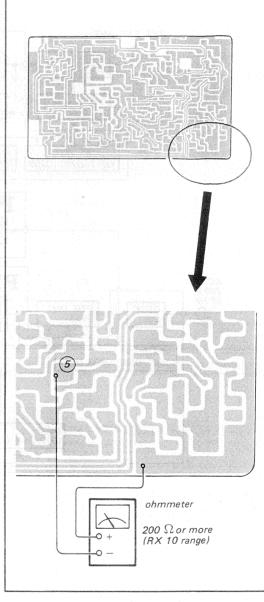
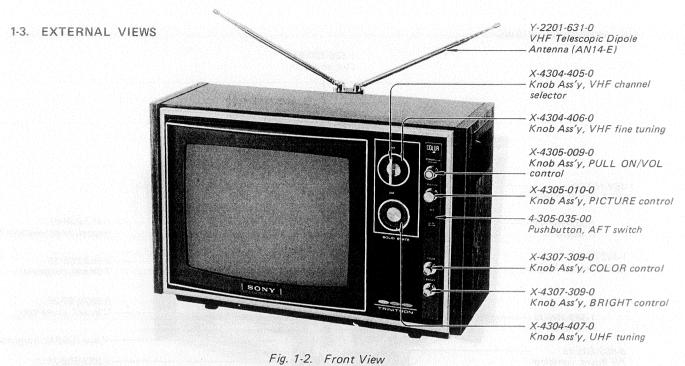
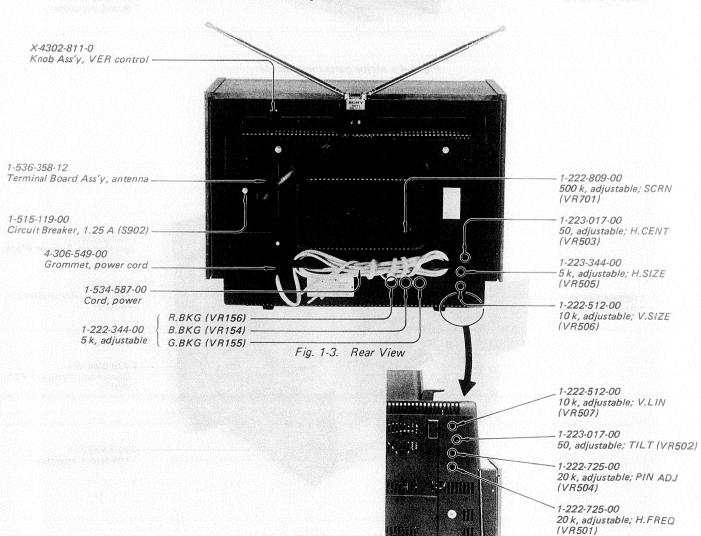


Fig. 1-1 (b). Check point on VH board





#### 1-4. INTERNAL VIEWS

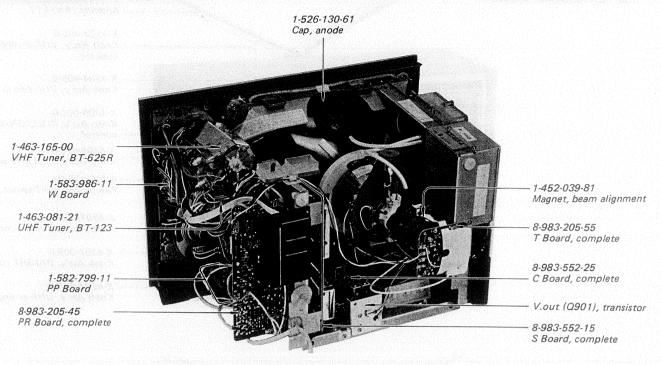


Fig. 1-4. Major parts location (1)

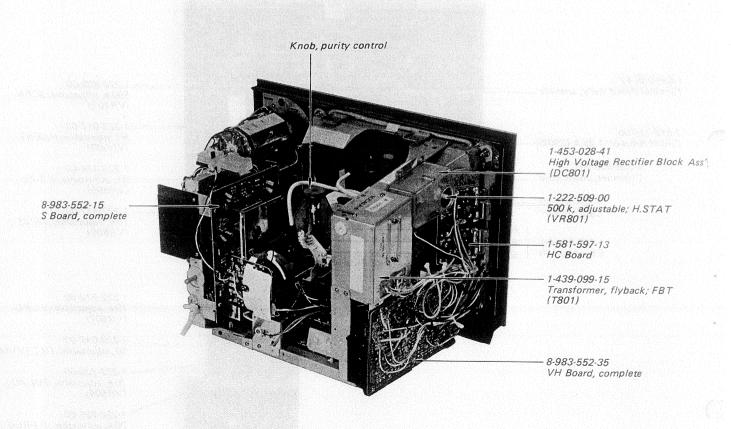


Fig. 1-5. Major parts location (2)

# SECTION 2 DISASSEMBLY AND REPLACEMENT

Note: All screws in this set are Phillips (cross recess) type unless otherwise noted.

#### 2-1. CABINET REMOVAL

Circled numbers indicate sequence.

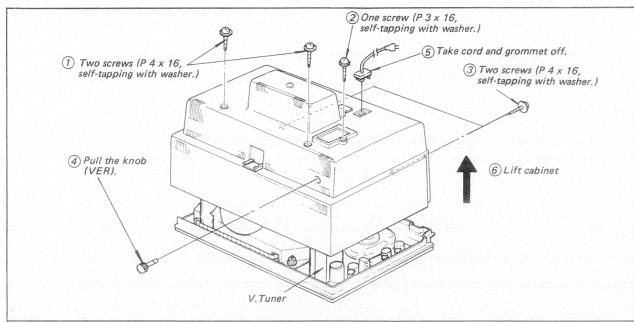
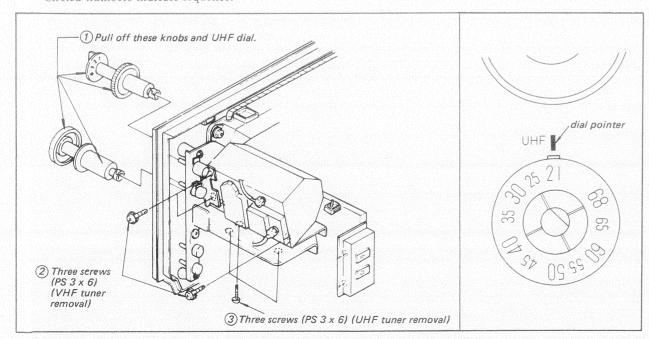


Fig. 2-1. Cabinet Removal

#### 2-2. VHF, UHF TUNERS REMOVAL AND UHF TUNER DIAL CALIBRATION

Remove cabinet as described in 2-1, and then proceed to following steps. Circled numbers indicate sequence.



[UHF Dial Calibration]

Fig. 2-2. Tuners removal and UHF dial calibration

Turn UHF tuner shaft counterclockwise as far as UHF dial will not turn any more, and then set the dial to the position where channel digit "21" meets the pointer as shown.

#### 2-3. SWITCHES, CONTROLS AND DIAL LAMP REPLACEMENT

Remove cabinet as described in 2-1 first, and then take out the tuner chassis where controls, switches and dial lamps are mounted. Circled numbers indicate sequence. This enables replacement of defective components.

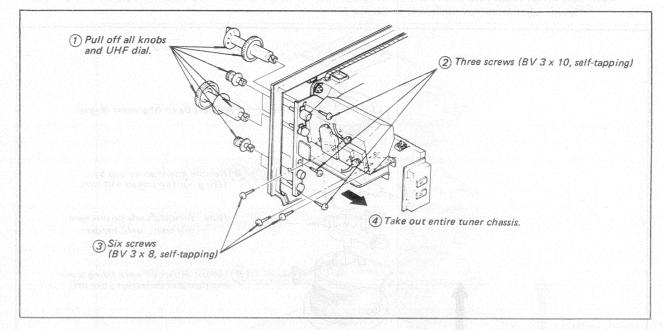


Fig. 2-3. Tuner chassis removal

#### 2-4. SPEAKER REMOVAL

Remove cabinet as described in 2-1, and then proceed to following steps. Circled numbers indicate sequence.

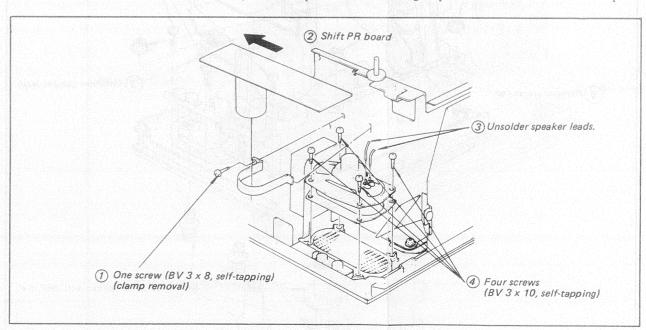


Fig. 2-4. Speaker removal

#### 2-5. PICTURE TUBE REMOVAL

Remove cabinet as described in 2-1, and then proceed to following steps. Circled numbers indicate sequence.

Note: Place the set on the protective sheet with the picture tube face down. After completing the replacement, proceed to "Setup Adjustment" as described in Section 3.

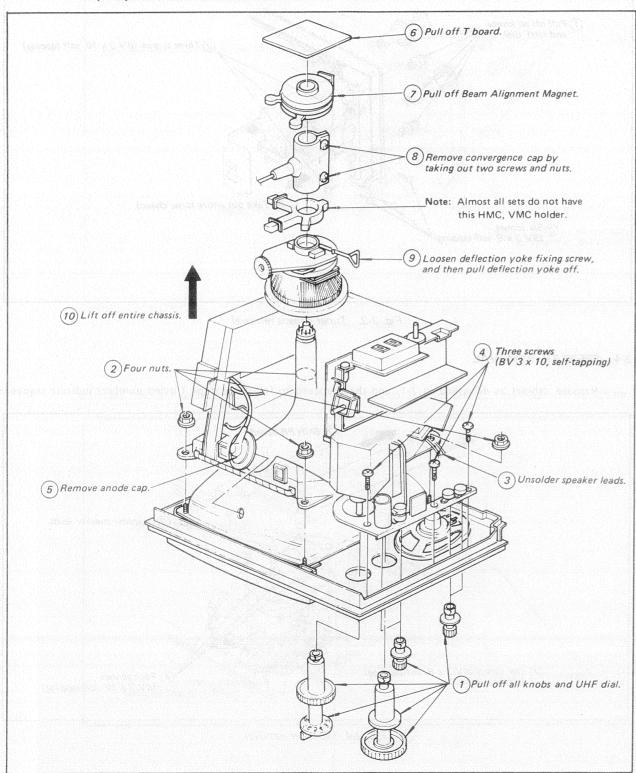


Fig. 2-5. Picture tube removal

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#### **SECTION 3**

#### SETUP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

Control and switch should be set as follows:

BRT controls . . . fully clockwise AFT switch . . . . . . . ON

#### 3-1. BEAM LANDING ADJUSTMENTS

Receive no signal.

Before starting this adjustment, demagnetize the whole screen securely with degausser.

- 1. Loosen deflection yoke screw
- 2. Remove deflection yoke spacers.
- 3. Adjust purity control to center the slide between two projections as shown in Fig. 3-1.
- 4. Slide deflection yoke forward as far as it will go.
- 5. Disconnect BLU and GRN lead wires on the T board.
- 6. Turn purity control to center vertical red band as shown in Fig. 3-2.
- 7. Slide deflection yoke backward for a uniform red screen.
- 8. Check green and blue rasters for uniformity. Repeat the Steps 5, 6 and 7.

To get a uniform green screen

..... Connect green lead on the T board.

Disconnect red and blue leads.

To get a uniform blue screen

.... Connect blue lead on the T board.

Disconnect red and green leads.

After this checks, connect the RED, BLU and GRN leads.

- 9. Check if mislanding appears at corners a ~ d as shown in Fig. 3-3. If mislanding is observed, correct it as shown in Fig. 3-4.
- Tighten the deflection yoke screw and then put the deflection yoke spacers.

#### 3-4. WHITE BALANCE ADJUSTMENTS

Receive the crosshatch pattern.

- 1. Turn BRT and PICTURE controls fully counterclockwise.
- 2. Turn VR153 (R.DRIVE), VR151 (B.DRIVE) and VR152 (G.DRIVE) fully clockwise.

Perform the adjustments in order as follows:

- 1. Beam Landing Adjustments
- 2. Convergence Adjustments
- 3. White Balance Adjustments

Fig. 3-1.

Purity control corrects

Note: Test Equipment Required

1. Color-bar/pattern generator

Fig. 3-2.

these areas.

Disk magnet corrects

VR701

VR152

VR153 R.DRIVE

G.DRIVE

VR151

BDRIVE

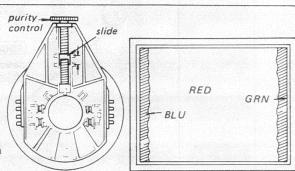
VR156 R.BKG

> VR154 B.BKG

VR155

SCRN

2. Degausser



Deflection yoke

Fig. 3-3.

these areas.

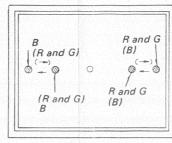
novement corrects

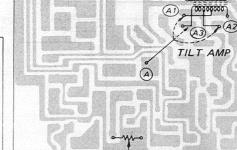
3-3. DYNAMIC CONVERGENCE ADJUSTMENTS

Receive the dot pattern.

Misconvergence at Both Sides of Screen
 Adjust VR502 (TILT). (2) Select one of A1 ~ A3 for best convergence.

If misconvergence persists, perform Step (2).





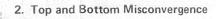
VR502 TILT

VR502

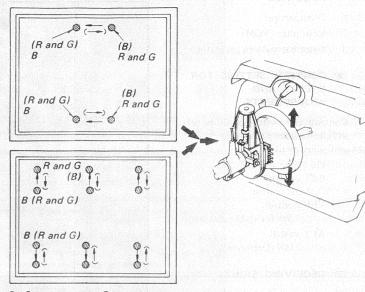
(TII T

HOT

VR801 (H.STAT)

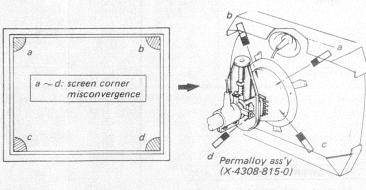


Raise or lower the front edge of the deflection yoke

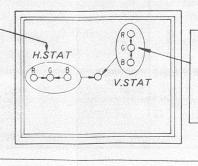


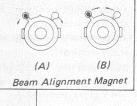
3. Screen-corner Convergence

Affix a permalloy ass'y corresponding to the misconverged areas.



3-2. HORIZONTAL AND VERTICAL STATIC CONVERGENCE ADJUSTMENTS





VMC magnet movement corrects insufficient H.static convergence.

HMC magnet movement corrects insufficient V.static convergence.

3. Set VR156 (R.BKG), VR154 (B.BKG) and VR155 (G.BKG) to mechanical center.

Fig. 3-4.

- Turn VR701 (SCRN) slowly to obtain a faintly visible crosshatch. Memorize the colour which becomes visible first by turning VR701. Do not touch a BKG control of this colour signal.
- 5. Adjust the other two BKG controls for best white balance (neutral gray) at faintly visible screenlight.
- 6. Turn BRT and PICTURE controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
- 7. Repeat Steps 1 through 6 several times.

#### SECTION 4

#### CIRCUIT ADJUSTMENTS

#### 4-1. POWER REGULATOR ADJUSTMENTS

#### Note:

#### (1) TEST EQUIPMENT REQUIRED

- 1. Oscilloscope
- 2. Voltmeter (VOM)
- 3. Color-bar/pattern generator

#### (2) CONTROL SETTING FOR CHECKS AND ADJUSTMENTS

Controls and switch should be set as follows when performing checks and adjustments.

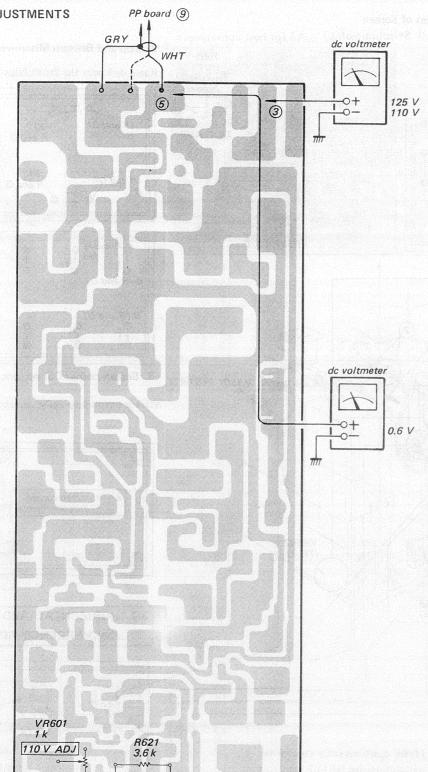
PICTURE control
BRT control
COLOR control
VER control
..... Set for stable picture
AFT switch
..... ON (Depressed)

#### (3) RECEIVING SIGNAL

When performing these adjustments, receive a crosshatch signal, a color-bar signal or an off-the-air signal.

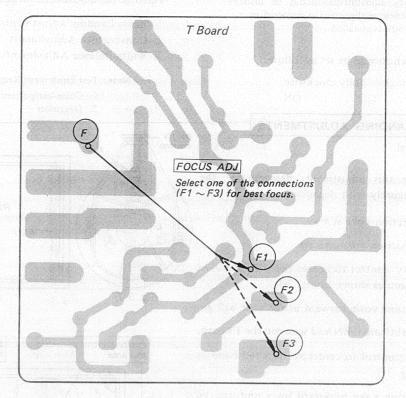
#### POWER REGULATOR ADJ.

- 1. Confirm 220 V power voltage.
- 2. Connect a  $10\,k\Omega$ -resistor as shown in figure.
- 3. Disconnect the white lead at the terminal (5) and then connect the lead to ground.
- 4. Adjust VR601 to obtain 125 V at the terminal  $\Im$ .
- 5. Adjust VR602 to obtain 0.6 V at the terminal (\$\overline{3}\$).
- 6. Disconnect the  $10\,k\Omega$ -resistor and readjust VR601 to obtain  $110\,V$  at the terminal  $\widehat{\ 3}$  .
- 7. Reconnect the white lead.

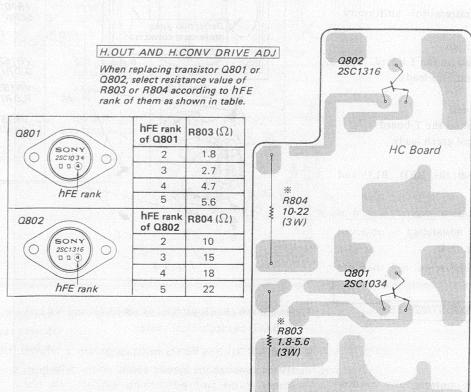


\_10 kΩ-resistor

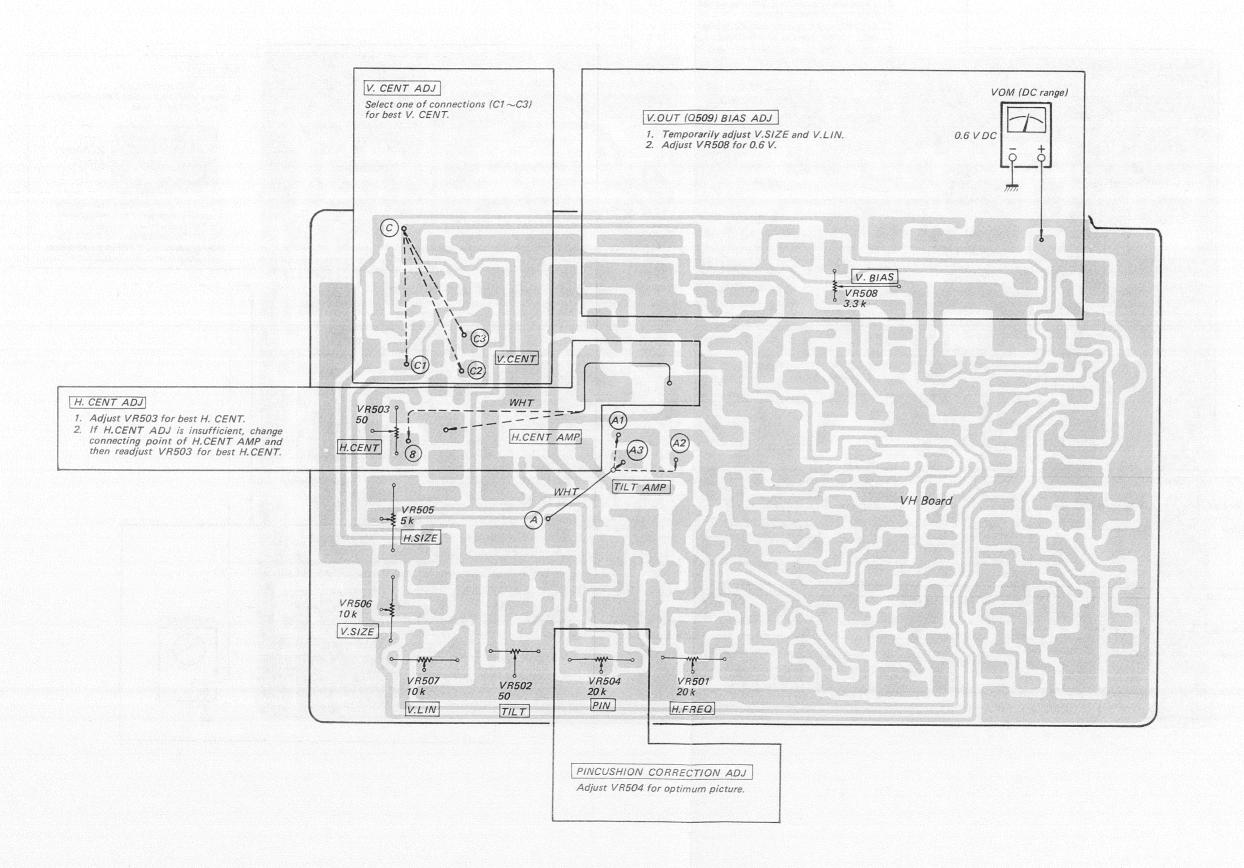
#### 4-2. FOCUS ADJUSTMENT

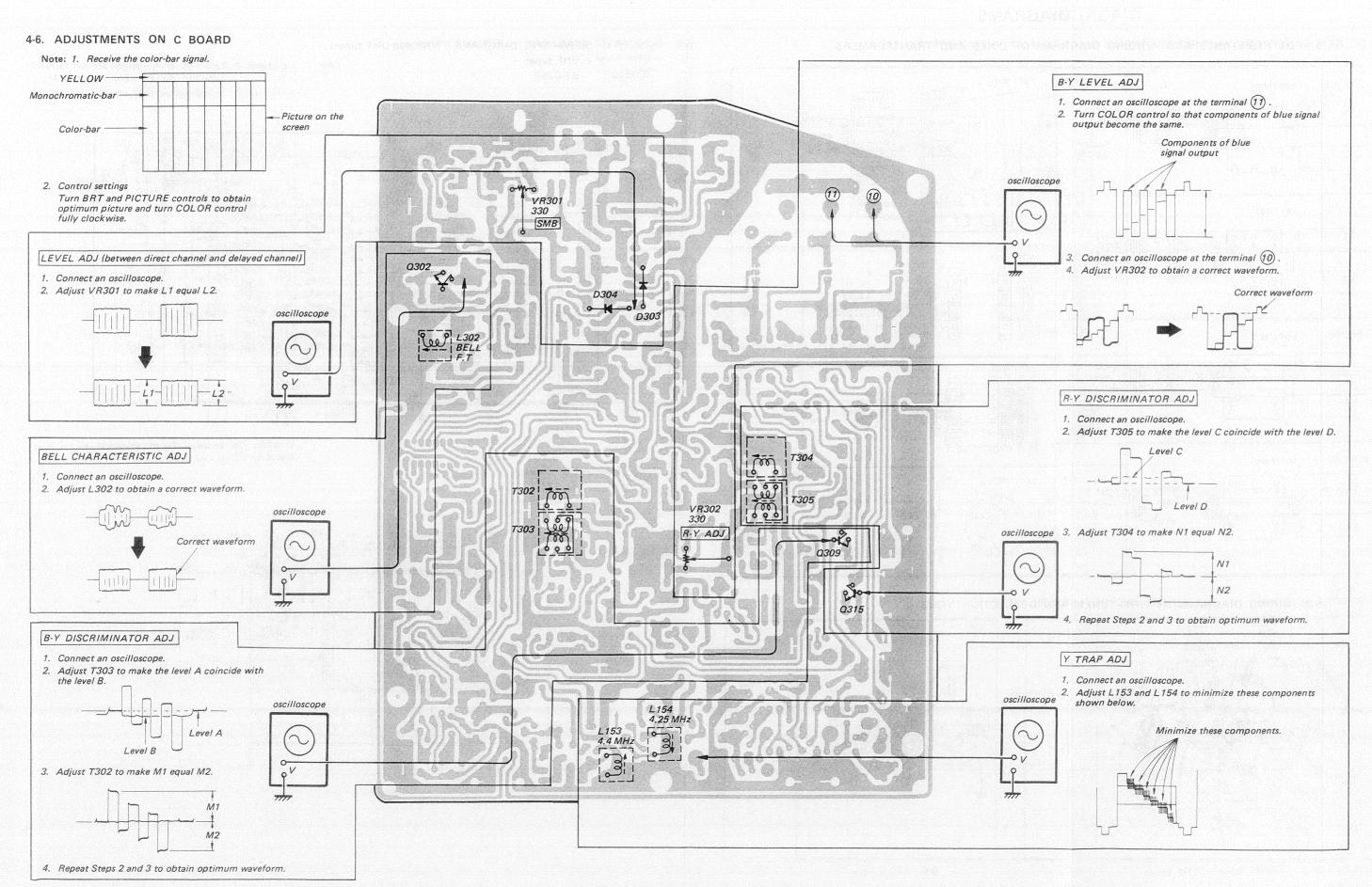


#### 4-3. H.OUT AND H.CONV DRIVE ADJUSTMENT



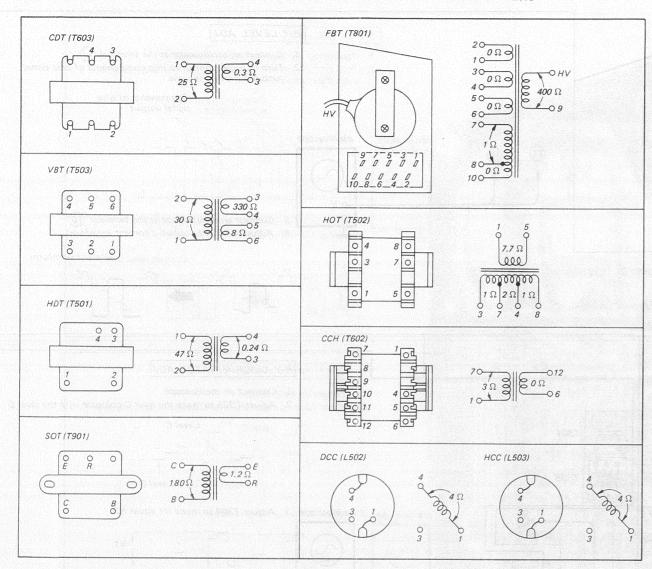
## 4-4. ADJUSTMENTS ON S BOARD SIF ADJ 1. Adjust T210 for maximum clear sound. Adjust T210 for maximum clear sound. Temporarily connect 100k-ohm variable resistor as shown in figure. Set 100k-ohm variable resistor to position where noise sound is faintly heard. Adjust T209 for maximum clear sound. AFT ADJ Set AUTO switch OFF. Turn VHF fine tuning knob clockwise for a 2.07 MHz beat. T210 SIFT-3 2.07 MHz beat 3. Turn VHF fine tuning knob counterclockwise and set it to point where 2.07 MHz beat just disappears. 4. Set AUTO switch ON. If 2.07 MHz beat appears, set T212 to point where 2.07 MHz beat just disappears. S Board VHF TUNER AGC ADJ Set VR201 to position where snow-noise picture just disappears. 2. Check all VHF channels for noise-free DET OUT ADJ Connect an oscilloscope as shown in figure. Adjust VR203 for 2.5 ~ 2.7 Vp-p as shown 100 k in figure. UHF TUNER AGC ADJ oscilloscope 1. Set VR204 to position where snow-noise o VR204 picture just disappears. 2. Check all UHF channels for noise-free U.RF AGC VR203 DET OUT DC OV level



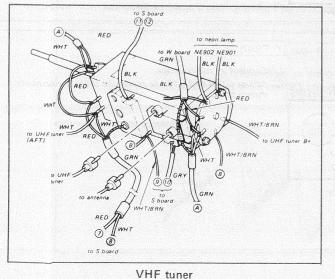


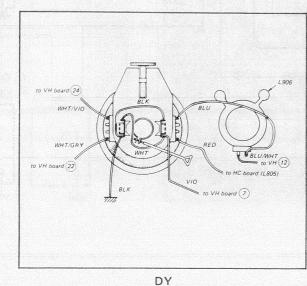
# SECTION 5 DIAGRAMS

#### 5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS



#### 5-2. WIRING DIAGRAMS OF VHF TUNER AND DEFLECTION YOKE

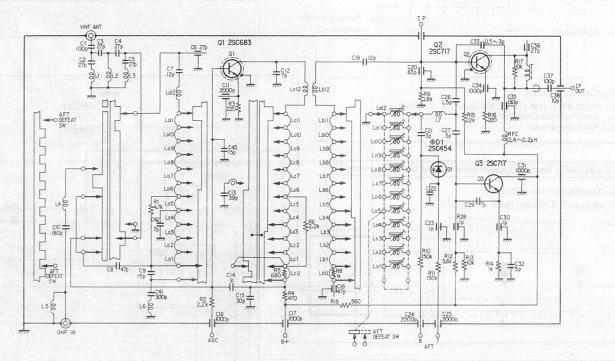




5-3. SCHEMATIC DIAGRAMS — VHF and UHF tuners — — VHF tuner — BT-625R

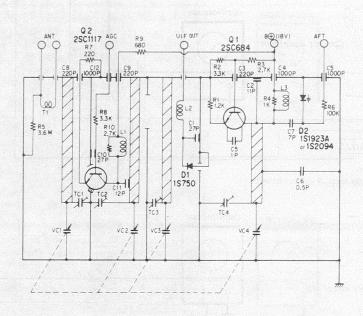
Note: 1. Tuner reference numbers are not included in the Electrical Parts List (Page 43  $\sim$  51).

2. All resistors are ½ W unless otherwise noted.



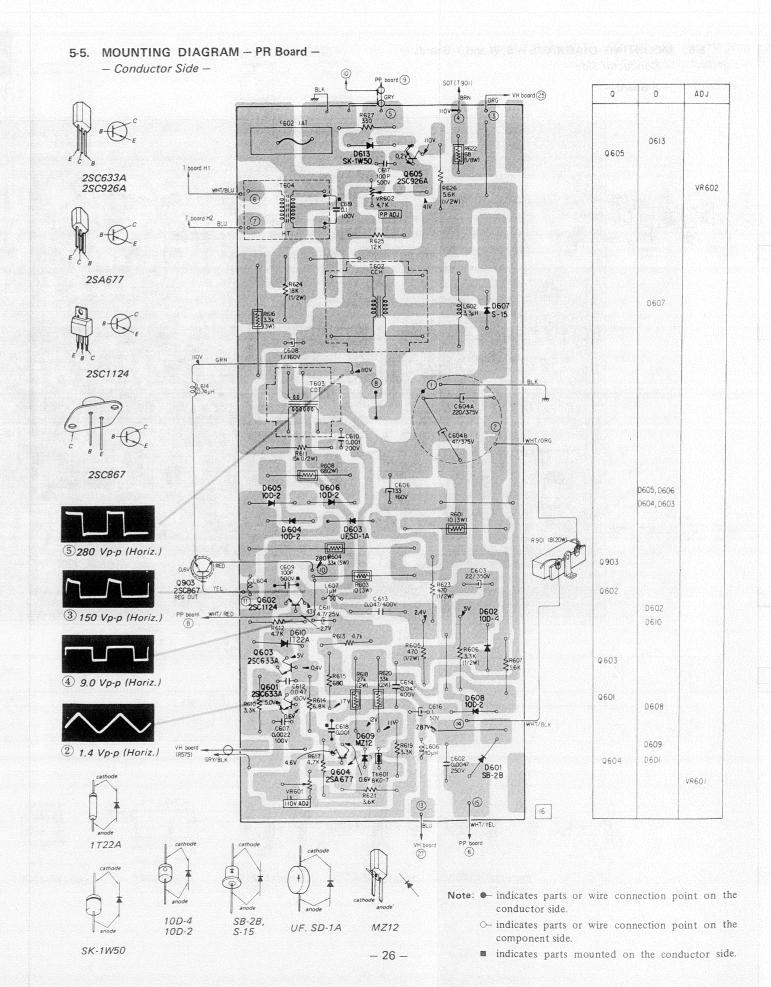
\* Transistor 2SC454 (base-collector junction) is used for D1.

- UHF tuner -BT-123



## 5-4. MOUNTING DIAGRAMS - PP and HC Boards -- Conductor Side -- PP Board -63 C60I 0.22 /300V AC C 622 0,22/300V AC WHI PR board - HC Board -22 500 Vp-p (Horiz.) 10D-05 D803 IOD-05 Q801 25C1034 21) 820 Vp-p (Horiz.) SB-2C, SB-2B [13] Note: - indicates parts or wire connection point on the conductor side. O- indicates parts or wire connection point on the component side. \* indicates values to be selected. - 25 -

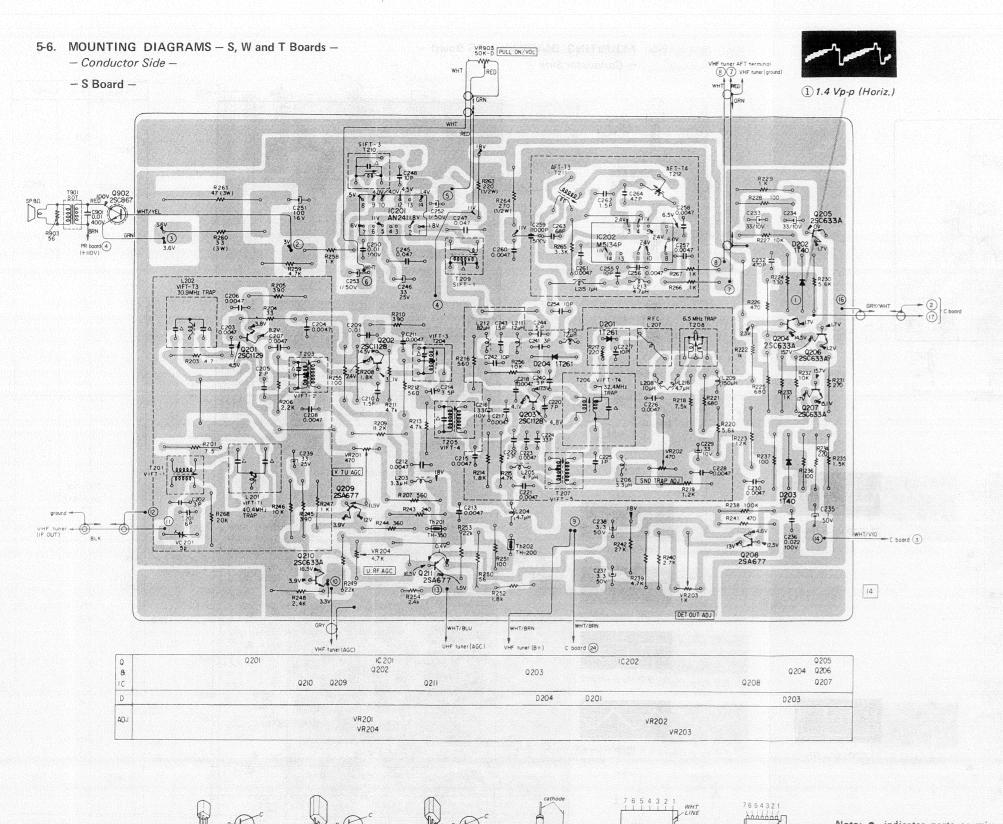
indicates parts mounted on the conductor side.



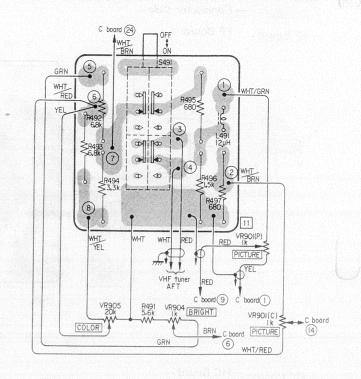
8 9 10 11 12 13 14

AN241

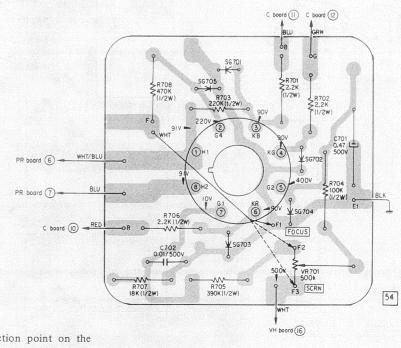
M5134P



- W Board -



- T Board -



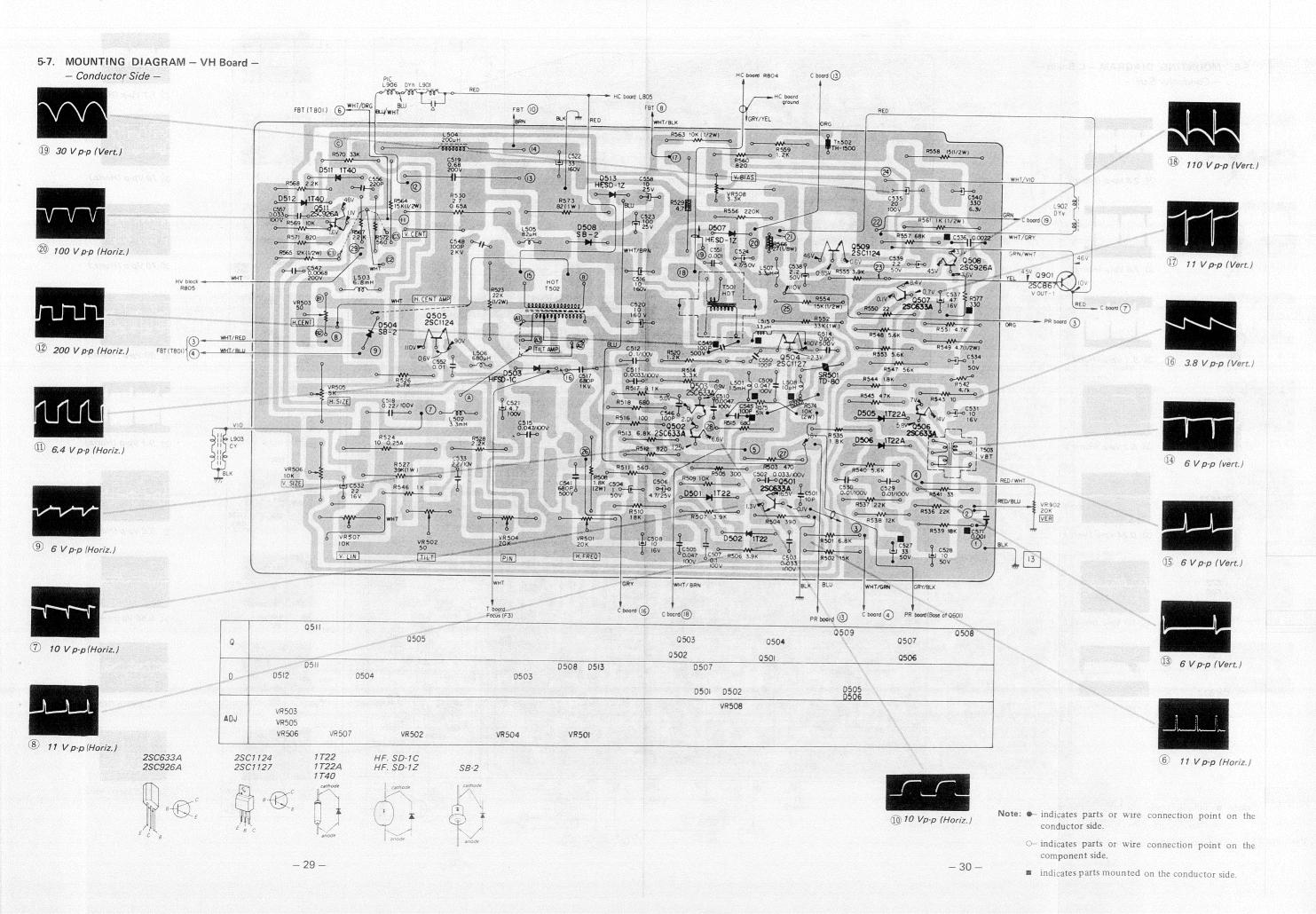
- Note: indicates parts or wire connection point on the conductor side.
  - indicates parts or wire connection point on the component side.
  - \* indicates values to be selected.
  - indicates parts mounted on the conductor side.

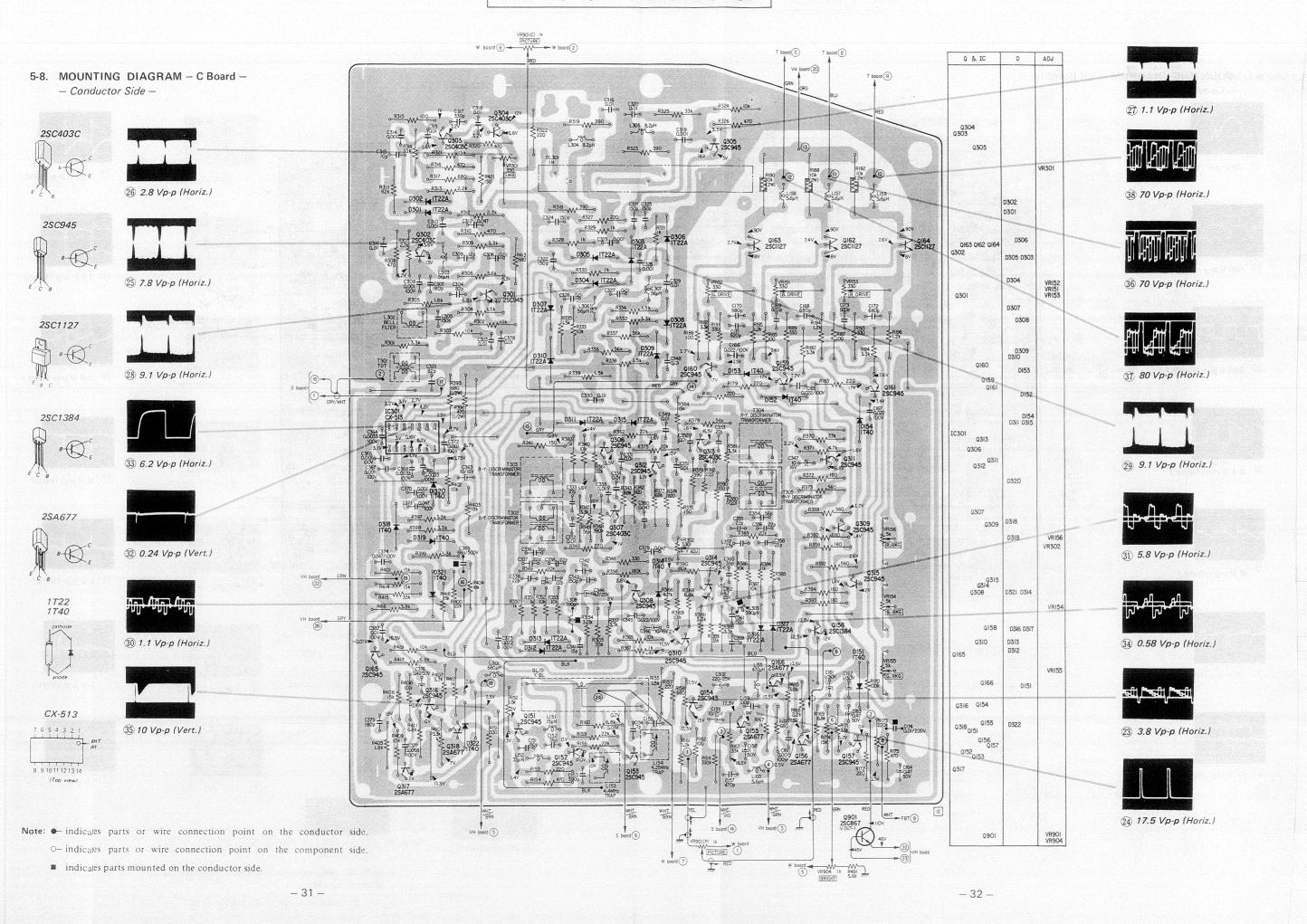
2SC633A

2SA677

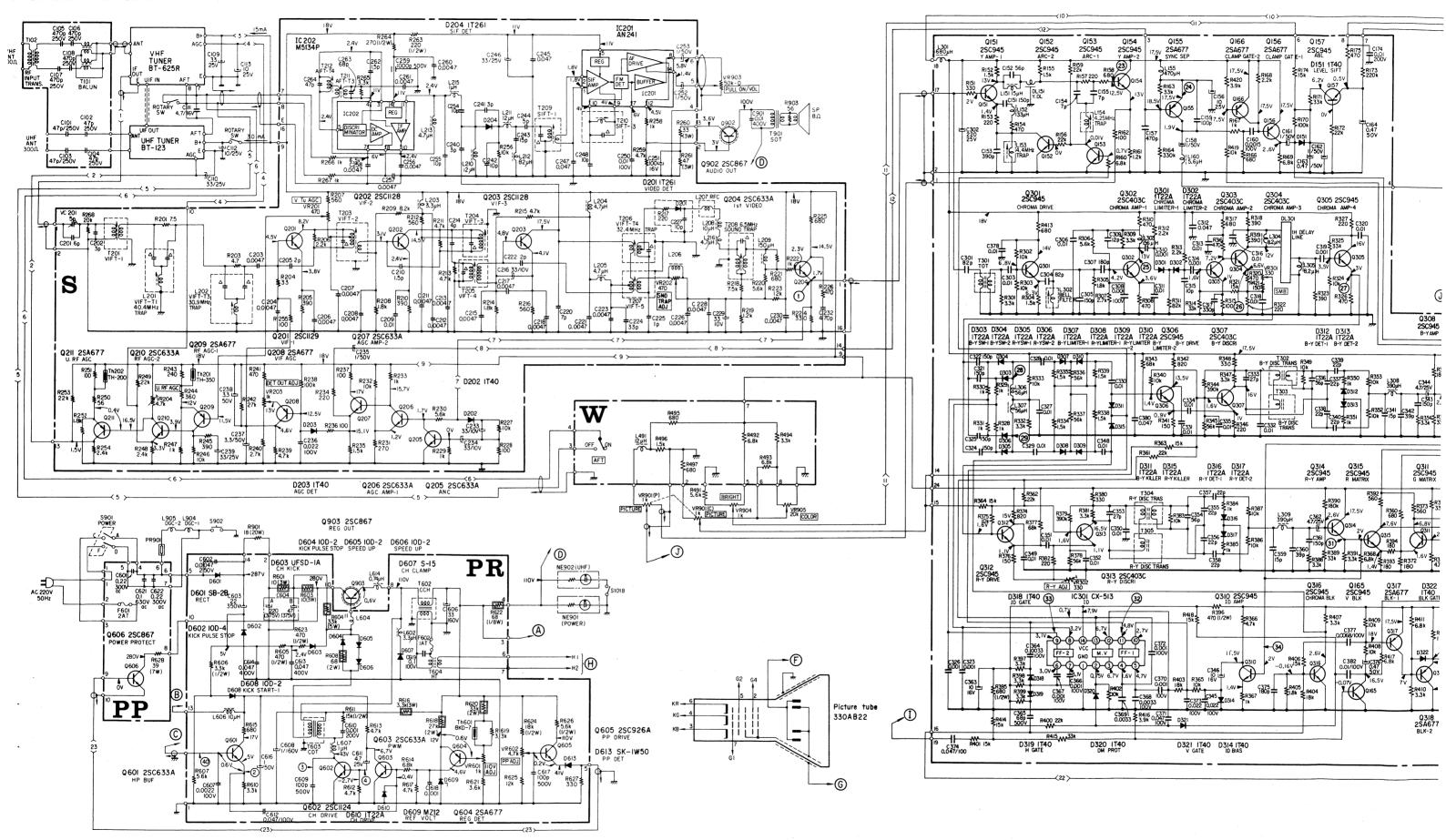
1T261 1T40

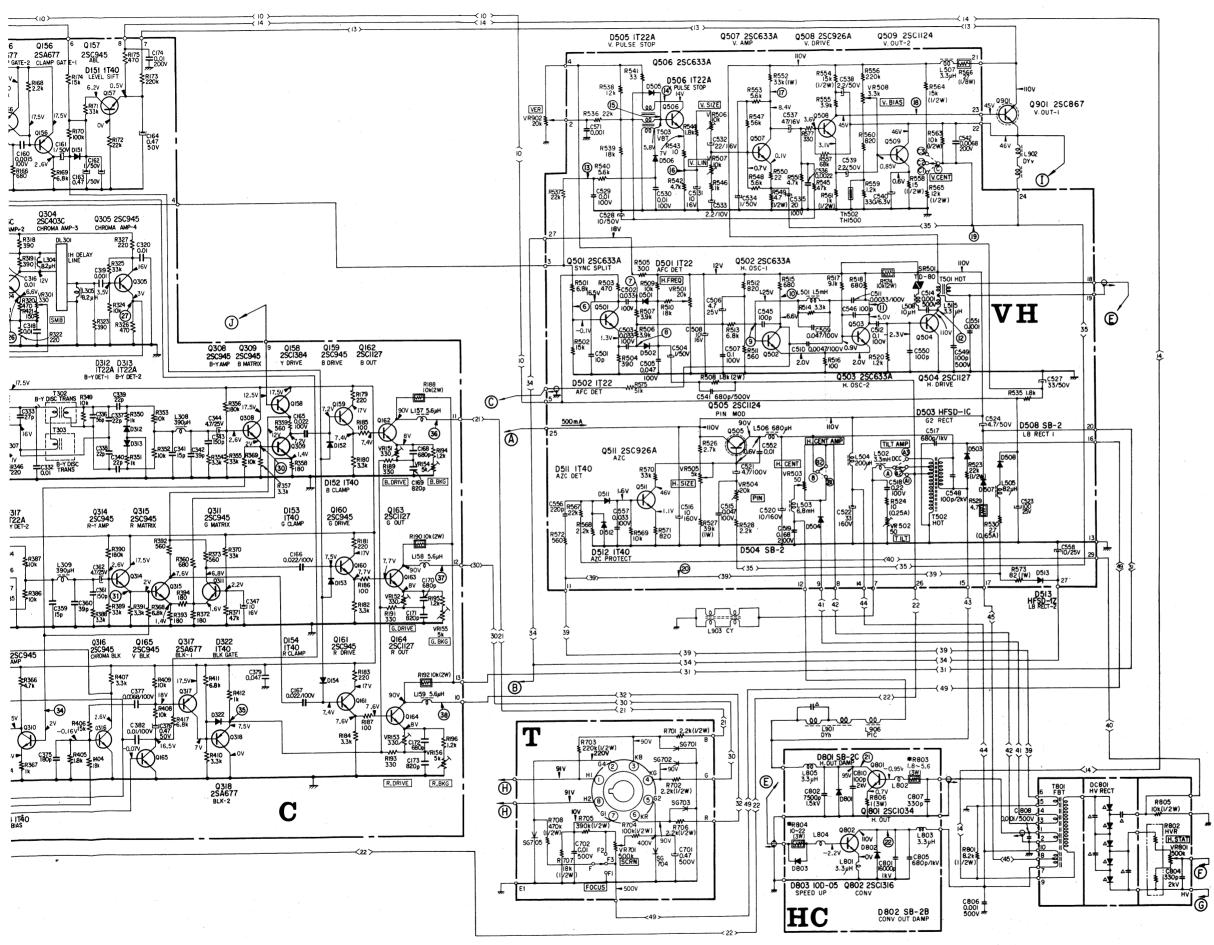
2SC1128 2SC1129





#### -9. SCHEMATIC DIAGRAM





**- 35 -**

#### Note

- 1. All capacitors are in  $\mu$ F, 50 V unless otherwise noted. p =  $\mu\mu$ F
- 2. All resistors are in ohms,  $^{1}\!\!/_{\!\!4}$  W unless otherwise noted.  $k=1,000,~M=1,000\,k$
- Resistance values marekd \*\* are to be selected to yield specified operating conditions.
- 4. △ indicates internal components.
- Voltages are dc with respect to ground unless otherwise noted. Readings are measured by applying a color-bar signal with a 20,000 ohm-per-volt VOM. Voltages variations may be noted due to normal production tolerances.
- 6. The circled numbers (1 ~ 40) refer to waveforms shown on mounting diagrams.
- 7. VR901 and S901 are coupled.

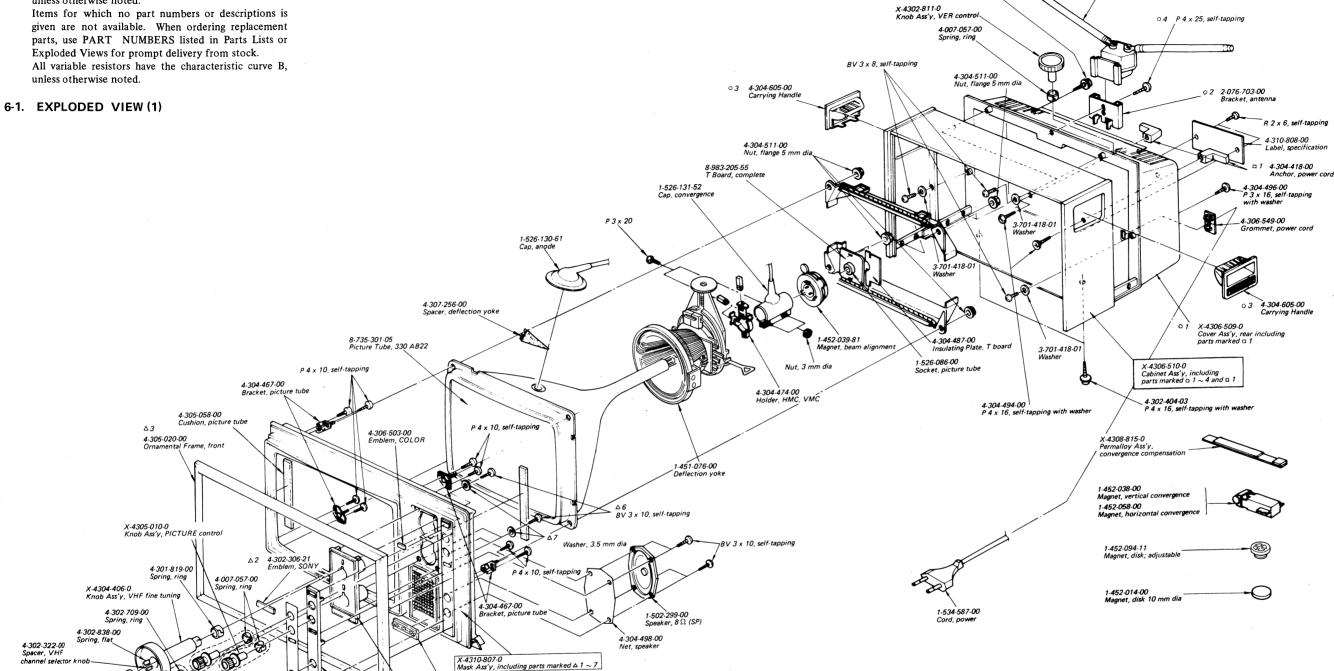
## **SECTION 6 EXPLODED VIEWS**

Note: All screws in this set are Phillips (cross recess) type unless otherwise noted.

X-4304-407-0 Knob Ass'y, UHF tuning

X-4305-009-0 Knob Ass'y, PULL ON/VOL control

/ / X-4306-505-0 Dial Ass'y, UHF



△ 1 X-4305-002-0 Emblem Ass'y, tricolor

△5 4-306-502-00 Panel, UHF and VHF knob

△4 4-310-809-00 Panel, control knob

4-310-812-00 Sheet, control knob

4-007-057-00 Spring, ring

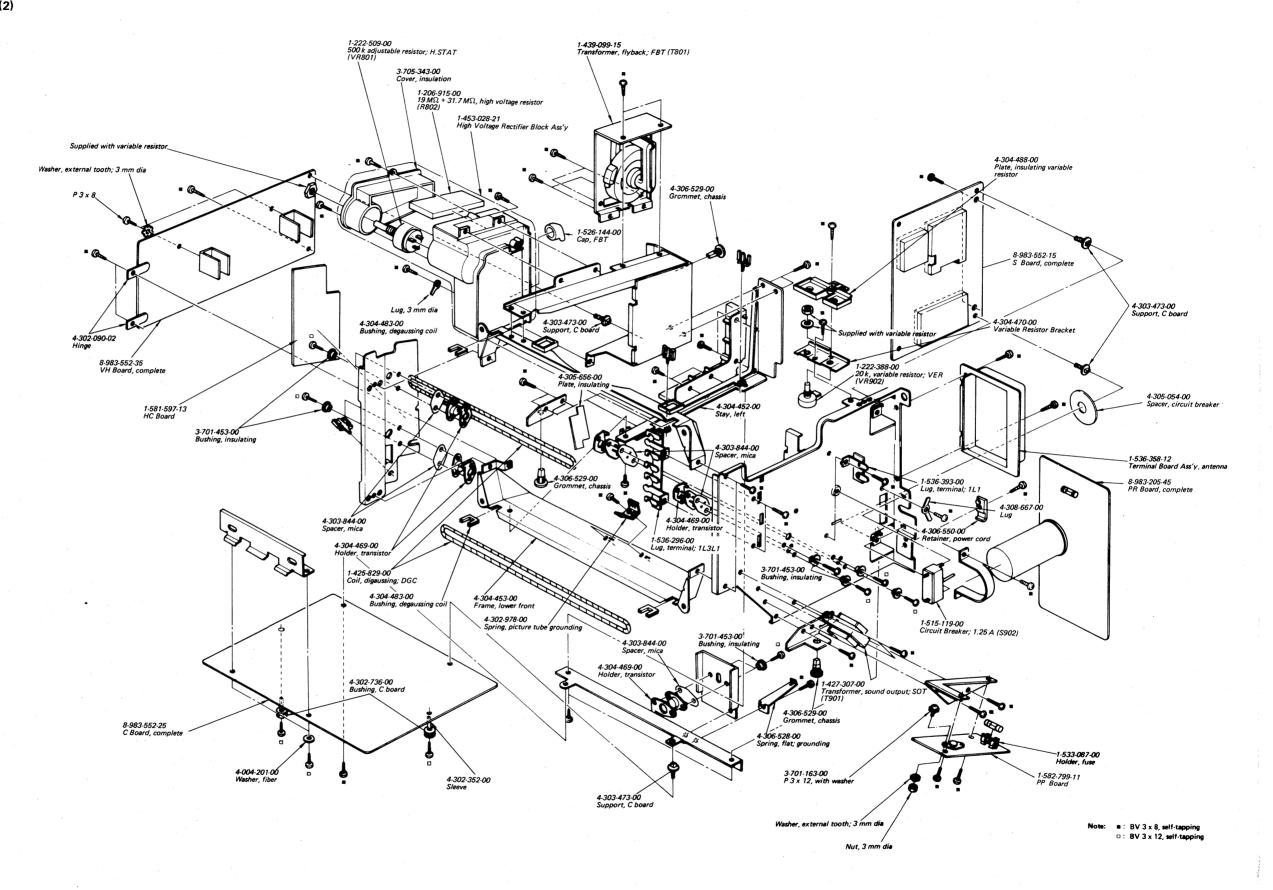
X-4307-309-0 Knob Ass'y, COLOR control

X-4307-309-0 Knob Ass'y, BRIGHT control

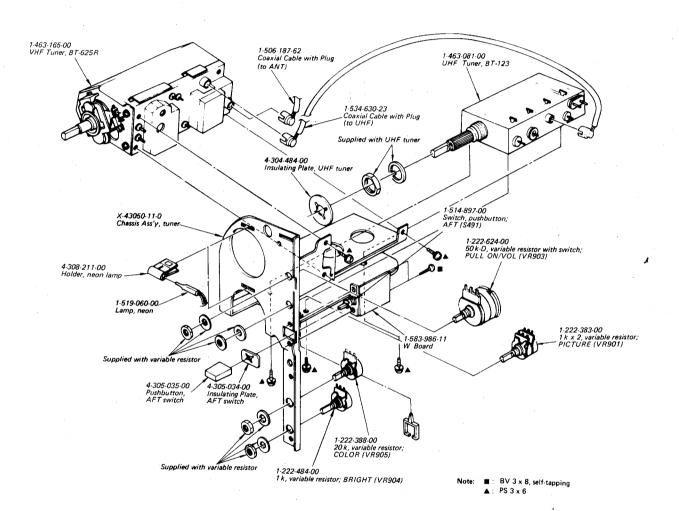
Y-2201-631-0 VHF Telescopic Dipole Antenna (AN14-E)

4-304-494-00 P 4 x 16, self-tapping with wash

#### 6-2. EXPLODED VIEW (2)



#### 6-3. EXPLODED VIEW (3)



#### **SECTION 7**

#### REPACKING

The KV-1310R's original shipping carton and packing materials are the ideal container for shipping the unit. However to secure the maximum protection,

the KV-1310R must be repacked in these materials precisely as before. The proper repacking procedures are shown in Fig. 7-1.

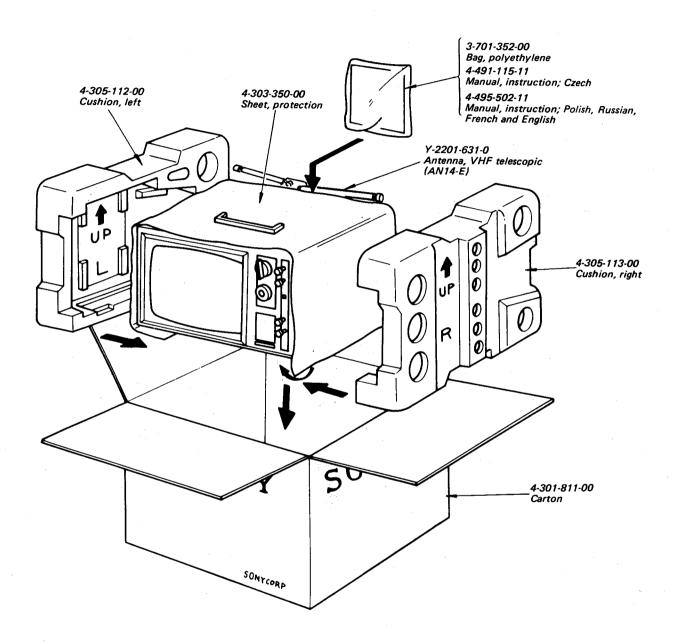


Fig. 7-1. Repacking

# SECTION 8 ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No. Part No.	Description
	TU	JNERS	Q209	2SA677
			Q210	2SC633A
	1-463-165-00	VHF Tuner, BT-625R	Q211	2SA677
	1-463-081-00	UHF Tuner, BT-123	O201	200045
			Q301 Q302	2SC945
	CIRCUI	T BOARDS	Q302 Q303	2SC403C
			Q304	2SC403C 2SC403C
	1-581-597-13	HC Board	Q304 Q305	2SC945
	1-582-799-11	PP Board	Q303	230,943
	1-583-986-11	W Board	Q306	2SC945
	8-983-552-15	S Board, complete	Q307	2SC403C
	8-983-552-35	VH Board, complete	Q308	2SC945
	8-983-205-45	PR Board, complete	Q309	2SC945
	8-983-205-55	T Board, complete	Q310	2SC945
	8-983-552-25	C Board, complete	Q310	230.943
			Q311	2SC945
	SEMICO	NDUCTORS	Q312	2SC945
	Tra	nsistors	Q312 Q313	2SC403C
			Q314	2SC945
Q151		2SC945	Q314 Q315	2SC 945
Q152		2SC945	Q313	250 943
Q153		2SC945	Q316	2SC945
Q154		2SC945	Q317	2SA677
Q155		2SA677	Q318	2SA677
			<b>Q310</b>	
Q156		2SA677	0501	200(224
Q157		2SC945	Q501	2SC633A
Q158		2SC1384	Q502	2SC633A
Q159		2SC945	Q503 Q504	2SC633A 2SC1127
Q160		2SC945	Q504 Q505	2SC1127 2SC1124
0161		200015	Q303	2301124
Q161		2SC945	Q506	2SC633A
Q162		2SC1127	Q507	2SC633A
Q163		2SC1127	Q507 Q508	2SC926A
Q164		2SC1127	Q509	2SC1124
Q165 Q166		2SC945 2SA677		
Q100		23A077	Q511	2SC926A
Q201		25(1120	0601	2SC633A
Q201 Q202		2SC1129 2SC1128	Q601 Q602	2SC1124
Q202 Q203		The state of the s		
Q203 Q204		2SC1128 2SC633A	Q603 Q604	2SC633A 2SA677
Q204 Q205		2SC633A	Q004	25A077
Q203		200033M		
Q206		2SC633A		
Q207		2SC633A		
Q208		2SA677		
-		. *		

Ref. No.	Part No.	Description		Ref. No.	Part No.	Descripti	on
Q605		2SC926A		D503		HF.SD-1C	
Q606		2SC867		D504		SB-2	
				D505		1T22	
Q801		2SC1034		D506		1T22A	
Q802		2SC1316		D507		HF.SD-1Z	
				D508		SB-2	
Q901		2SC867		ļ			
Q902		2SC867		D511		1T40	
Q903		2SC867		D512		1T40	
				D513		HF.SD-1Z	
		Diodes		D601		an an	
D151		17740		D601 D602		SB-2B	
D152		1T40 1T40		D602		10D-4	
D153		1T40		D604		UF.SD-1A 10D-2	
D154		1T40 1T40		D605		10D-2 10D-2	
				2003		10D-2	
D201		1T261		D606		10D-2	
D202		1T40		D607		S-15	
D203		1T40		D608		10D-2	
D204		1T261		D609		MZ12	
D201				D610		1T22A	
D301		1T22A		D613			
D302		1T22A		<b>D</b> 013		SK-1W50	
D303		1T22A		D801		SB-2C	
D304		1T22A		D802		SB-2B	
D305		1T22A	.	D803		3D-2B 10D-05	
D306		1T22A		2005		100-03	
D300 D307		1122A 1T22A				lCs	
D308		1T22A 1T22A					
D309		1T22A 1T22A		IC201		AN241	
D310		1T22A 1T22A	1	IC202		M5134P	
		11221		IC301		CX-513	
D311		1T22A					
D312		1T22A	1		Misc	elianeous	
D313		1T22A					
D314		1T40		PR901	1-800-275-00	Posistor	
D315		1T22A		SR501	1-800-032-00	Varistor	TD-80
				Th201	1-800-071-00	Thermistor	TH-350
D316		1T22A	ĺ	Th202	1-800-059-00	Thermistor	TH-200
D317		1T22A		Th502	1-800-069-00	Thermistor	TH-1500
D318		1T40		Th601	1-800-081-00	Thermistor	8KD-7
D319		1T40					
D320		1T40			, с	OILS	
D321		1T40	l				
D322		1T40	ĺ	All coils are	microinductor u	nless otherwise	e noted.
				L151	1-407-159-00	15 μΗ	
D501		1T22			- 10/ 10/-00	15 μΠ	
D502		1T22					
			•				

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L152	1-407-699-00	33 μΗ	L506	1-407-193-00	680 μH
L153	1-409-287-00	Trap, 4.4 MHz	L507	1-407-364-00	3.3 µH, spook choke
L154	1-409-193-00	Trap, 4.25 MHz	L508	1-407-190-00	10 μH
L155	1-407-177-00	470 μH			•
			L515	1-407-364-00	3.3 $\mu$ H, spook choke
L157	1-407-187-00	5.6 μΗ			• • • • • • • • • • • • • • • • • • •
L158	1-407-187-00	5.6 μH	L602	1-407-364-00	3.3 µH, spook choke
L159	1-407-187-00	5.6 μH	L604	1-407-364-00	spook choke
L160	1-407-187-00	5.6 μH	L606	1-407-190-00	10 μH
			L607	1-407-178-00	1 μΗ
L201	1-409-214-00	Video i-f, VIFT-T1;40.4 MHz TRAP			
L202	1-409-215-00	Video i-f, VIFT-T3;30.9 MHz TRAP	L614	1-407-365-00	0.74 μΗ
L203	1-407-184-00	3.3 µH			
L204	1-407-186-00	4.7 μH	L801	1-407-364-00	3.3 µH, spook choke
L205	1-407-186-00	4.7 μH	L802	1-407-364-00	spook choke
			L803	1-407-364-00	3.3 µH, spook choke
L206	1-407-184-00	3.3 µH	L804	1-407-364-00	spook choke
L207	1-425-504-00	Radio Frequency Choke, RFC	L805	1-407-364-00	$3.3 \mu\text{H}$ , spook choke
L208	1-407-190-00	10 <b>μ</b> H			
L209	1-407-171-00	150 μΗ	L901 )		
L210	1-407-158-00	12 μΗ	L902 }	1-451-096-00	Deflection Yoke
			L903 <sup>J</sup>		
L211	1-407-158-00	12 μΗ	L904	1-425-829-00	Degaussing, DGC-1
L212	1-407-168-00	82 μH	L905	1-425-829-00	Degaussing, DGC-2
L213	1-407-186-00	4.7 μΗ	L906	1-452-039-81	Purity Improving, PIC
L215	1-407-178-00	1 μΗ			
L216	1-407-186-00	4.7 μΗ	DL151	1-415-088-00	Y Delay Line, Y DL
			DL301	1-415-089-00	Delay Line, DL 1H
L301	1-407-557-00	680 μΗ			
L302	1-409-287-00	BELL FILTER		TRANS	FORMERS
L303	1-407-166-00	56 μH			
L304	1-407-189-00	8.2 μΗ	T101	1-417-033-00	Balun (included in antenna
L305	1-407-189-00	8.2 μΗ	T102	1 417 040 00	terminal board ass'y)
1206	1 407 144 00		T102	1-417-040-00	RF Input (included in antenna terminal board ass'y)
L306	1-407-166-00	56 μH			•
L307	1-407-166-00	56 μH	T201	1-403-728-00	Video i-f, VIFT-1
L308	1-407-176-00	390 μΗ	T203	1-403-729-00	Video i-f, VIFT-2
L309	1-407-176-00	390 μH	T204	1-403-841-00	Video i-f, VIFT-3
7.401	1 407 150 00	10	T205	1-403-729-00	Video i-f, VIFT-4
L491	1-407-158-00	12 μΗ			
1.501	1 407 646 00	1.5 11	T206	1-409-289-00	Video i-f, VIFT-T4;32.4 MHz TRAP
L501	1-407-646-00	1.5 mH	T207	1-403-730-00	Video i-f, VIFT-T5
L502	1-459-075-00	3.3 mH, dynamic convergence; DCC	T208	1-409-208-00	Trap; 6.5 MHz
L503	1-459-074-00	6.8 mH, horizontal centering; HCC	T209	1-403-864-00	Sound i-f, SIFT-1
L504	1-407-346-00	200 μH, spook choke	T210	1-403-843-00	Sound i-f SIFT-3
L505	1-407-553-00	82 μH, line choke			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Descrip	otion	
T211	1-403-810-00	Automatic Fine Tuning, AFT-T3	C154	1-102-809-11	7 p		
T212	1-403-811-00	Automatic Fine Tuning, AFT-T4	C155	1-102-809-11	7р 7р		
1212	1-405-011-00	Automatic Phie Tuning, AF 1-14	1 6133	1-102-009-11	/ p		
T301	1-405-372-00	Take-off, TOT	C156	1-121-398-11	10	25 V	elect
T302	1-403-987-00	Band Pass, BPT-1	C157	1-102-824-11	470 p		
T303	1-403-986-00	Burst Amplifier, BAT	C158	1-121-391-11	1	50 V	elect
T304	1-403-986-00	CW Oscillator, COT	C159	1-102-973-11	100 p		
T305	1-403-986-00	Band Pass, BPT-2	C160	1-108-616-11	0.0015	100 V	mylar
	1 100 700 00	5414 1 450, BI I 2					
T501	1-437-030-00	Horizontal Drive, HDT	C161	1-121-391 <b>-</b> 11	1	50 V	elect
T502	1-439-097-32	Horizontal Output, HOT	C163	1-121-726-11	0.47	50 V	elect
T503	1-435-008-21	Vertical Blocking Oscillator, VBT	C164	1-121-726-11	0.47	50 V	elect
		g	C165	1-108-630-11	0.022	100 V	mylar
T602	1-437-032-00	Chopper Choke, CCH					
T603	1-437-033-00	Chopper Drive, CDT	C166	1-108-630-11	0.022	100 V	mylar
T604	1-441-855-00	Heater, HT	C167	1-108-630-11	0.022	. 100 V	mylar
			C168	1-102-116-11	680 p		
T801	1-439-099-15	Flyback, FBT	C169	1-102-117-11	820 p		
		•					
T901	1-427-307-00	Sound Output, SOT	C170	1-102-116-11	680 p		
		• • • • • • • • • • • • • • • • • • • •	C171	1-102-117-11	820 p		
	CAPA	CITORS	C172	1-102-116-11	680 p		
			C173	1-102-117-11	820 p		
All capacito	ors are in $\mu$ F, 50 V	and of ceramic unless otherwise	C174	1-108-692-11	0.01	200 V	mylar
	$\mu\mu$ F, elect = elec						·
C101	1-102-238-11	47 p 250 Vac )	C201	1-102-857-11	6 p		
C102	1-102-238-11	47 p 250 Vac   (included in antenna	C202	1-102-862-11	3 p		
C103	1-102-238-11	47 p 250 Vac \ terminal	C203	1-101-003-11	0.0047		
C104	1-102-238-11	47 p 250 Vac board ass'y	C204	1-101-003-11	0.0047		
			C205	1-102-935-11	2 p		
C1 05	1-102-239-11	470 p 250 Vac ) (in aluda dia	6206		<del>-</del>		
C1 06	1-102-239-11	470 p 250 Vac   (included in antenna	C206	1-101-003-11	0.0047		
C1 07	1-102-239-11	470 p 250 Vac \ \terminal	C207	1-101-003-11	0.0047		
C1 08	1-102-239-11	470 p 250 Vac board ass'y	C208	1-101-003-11	0.0047		
C1 09	1-121-404-11	33 25 V elect	C209	1-101-004-11	0.01		
C1 10	1-121-404-11	33 25 V elect	C210	1-101-576-11	1.5 p		
•			6211	1 101 002 11	0.0047		
C1 11	1-121-257-11	47 16 V elect (bipolar)	C211	1-101-003-11	0.0047		
C1 12	1-121-398-11	10 25 V elect	C212	1-101-003-11	0.0047		
C1 13	1-121-398-11	10 25 V elect	C213	1-101-003-11	0.0047		
			C214	1-101-552-11	3.5 p		
C1 51	1-101-361-11	150 p	C215	1-101-003-11	0.0047		
C1 52	1-101-884-11	56 p	C214	1 121 402 14	22 :	10.77	.1
C1 53	1-102-822-11	390 p	C216 C217	1-121-402-11	33	10 V	elect
			(21/	1-101-003-11	0.0047		
			1				

Ref. No.	Part No.	Descrip	tion			Ref. No.	Part No.	Descrip	tion	
C218	1-101-003-11	0.0047				C259	1-102-043-11	1000 p	500 V	feed through
C220	1-102-662-11	7 p				C260	1-101-003-11	0.0047		
			•							
C221	1-102-003-11	0.0047				C261	1-101-003-11	0.0047		
C222	1-102-935-11	2 p				C262	1-101-576-11	1.5 p		
C223	1-101-003-11	0.0047				C263	1-102-525-11	68 p		
C224	1-102-963-11	33 p				C264	1-102-774-11	47 p		
C225	1-102-934-11	1 p			ŀ					
						C301	1-102-863-11	82 p		
C226	1-101-003-11	0.0047				C302	1-121-422-11	220	25 V	elect
C227	1-102-947-11	10 p				C303	1-101-004-11	0.01		
C228	1-101-003-11	0.0047				C304	1-102-863-11	82 p		
C229	1-121-402-11	33	10 V	elect		C305	1-102-888-11	150 p		
C230	1-101-003-11	0.0047								
						C306	1-101-004-11	0.01		
C232	1-102-098-11	470 p				C307	1-102-824-11	180 p		
C233	1-121-402-11	33	10 V	elect		C308	1-108-614-11	0.001	100 V	mylar
C234	1-121-402-11	33	10 V	elect		C309	1-102-949-11	12 p		
C235	1-121-391-11	1	50 V	elect		C310	1-102-074-11	0.001		
C236	1-108-630-11	0.022	100 V	mylar		C311	1-101-004-11	0.01		
C237	1-121-393-11	3.3	50 V	elect		C312	1-101-006-11	0.047		
C238	1-121-393-11	3.3	50 V	elect		C313	1-101-004-11	0.01		
C239	1-121-404-11	33	25 V	elect	İ	C314	1-102-074-11	0.001		
C240	1-102-940-11	3 p				C315	1-102-947-11	10 p		
C241	1-102-940-11	3 p				C316	1-101-004-11	0.01		•
C242	1-102-947-11	10 p				C317	1-102-820-11	330 p		•
C243	1-102-951-11	15 p			1.	C318	1-101-004-11	0.01		
C244	1-102-942-11	5 p				C319	1-102-074-11	0.001		
C245	1-101-006-11	0.047				C320	1-101-004-11	0.01		•
C246	1-121-404-11	33	25 V	elect		C321	1-101-361-11	150 p		
C247	1-102-006-11	0.047				C322	1-101-361-11	150 p		
C248	1-102-858-11	10 p				C323	1-102-074-11	0.01		
C250	1-108-626-11	0.01	100 V	mylar		C324	1-101-361-11	150 p		
				<b>,</b>		C325	1-101-361-11	150 p		
C251	1-121-415-11	100	16 V	elect						
C252	1-121-391-11	1	50 V	elect		C326	1-102-074-11	0.001		
C253	1-121-391-11	1	50 V	elect		C327	1-101-004-11	0.01		
C254	1-102-947-11	10 p				C328	1-101-004-11	0.01		
C255	1-102-947-11	10 p				C329	1-101-004-11	0.01		
						C330	1-101-004-11	0.01		
C256	1-101-003-11	0.0047								
C257	-1-101-003-11	0.0047				C331	1-101-004-11	0.01		
C258	1-101-003-11	0.0047			ı	C332	1-101-004-11	0.01		

## **KV-1310R**

Ref. No.	Part No.	Descr	iption			Ref. No.	Part No.	Descri	ption	
C333	1-102-883-11	27 p				C372	1-108-614-11	0.001	100 17	
C334	1-101-004-11	0.01				C372	1-108-630-11	0.001	100 V	mylar
C335	1-101-004-11	0.01				C374		0.022	100 V	mylar
		0.01					1-108-634-11	0.047	100 V	mylar
C336	1-102-850-11	56 p				C375	1-102-976-11	180 p		
C337	1-102-892-11	22 p				C276	1 121 726 11			_
C338	1-102-892-11	22 p				C376	1-121-726-11	0.47	50 V	elect
C339	1-102-959-11	22 p				C377	1-108-624-11	0.0068	100 V	mylar
C340	1-102-959-11	22 p				C378	1-101-004-11	0.01		
	1 102 303 11	22 p				C379	1-101-006-11	0.047		
C341	1-102-951-11	15 p				C380	1-101-006-11	0.047		
C342	1-102-965-11	39 p				Cana	1 100 (26 11			
C343	1-101-361-11	150 p				C382	1-108-626-11	0.01	100 V	mylar
C344	1-121-395-11	4.7	25 V			C501	1 102 047 11			
C345	1-108-630-11	0.022	100 V	elect		C501	1-102-947-11	10 p		
65 15	1-100-050-11	0.022	100 V	mylar		C502	1-108-632-11	0.033	100 V	mylar
C346	1-121-651-11	10	16.37	.1		C503	1-108-632-11	0.033	100 V	mylar
C347	1-121-651-11	10	16 V	elect		C504	1-121-391-11	1	50 V	elect
C348	1-101-004-11	0.01	16 V	elect		C505	1-108-634-31	0.047	100 V	mylar
C349	1-101-004-11	0.01				0504				
C350	1-101-004-11	0.01				C506	1-121-395-11	4.7	25 V	elect
	1 101 004-11	0.01				C507	1-108-638-11	0.1	100 V	mylar
C351	1-101-004-11	0.01				C508	1-121-651-11	10	16 V	elect
C352	1-101-004-11	0.01				C509	1-106-212-12	0.047	100 V	mylar
C353	1-102-883-11	27 p				C510	1-106-188-12	0.0047	100 V	mylar
C354	1-102-850-11	=								
C355	1-102-030-11	56 p 22 p				C511	1-106-184-12	0.0033	100 V	mylar
C333	1-102-720-11	22 p			•	C512	1-108-638-11	0.1	100 V	mylar
C356	1-102-720-11	22 p	*			C514	1-102-038-11	0.001	500 V	
C357	1-102-959-11					C515	1-108-634-11	0.047	100 V	mylar
C358	1-102-959-11	22 p			'					
C359	1-102-951-11	22 p				C516	1-121-708-11	10	160 V	elect
C360		15 p				C517	1-102-219-11	680 p	1 kV	
	1-102-965-11	39 p				C518	1-108-642-11	0.22	100 V	mylar
C361	1 101 271 11	1.50				C519	1-108-549-11	0.68	200 V	mylar
C362	1-101-361-11	150 p	25.11			C520	1-121-921-11	10	160 V	elect
C363	1-121-395-11	4.7	25 V	elect						
C364	1-121-651-11	10	16 V	elect		C521	1-121-918-11	4.7	100 V	elect
C365	1-108-620-11 1-102-989-11	0.0033	100 V	mylar		C522	1-123-024-11	33	160 V	elect
C363	1-102-969-11	68 p	500 V		1	C523	1-121-416-11	100	25 V	elect
C266	1 100 214 11			7.		C524	1-121-396-11	4.7	50 V	elect
C366	1-108-614-11	0.001	100 V	mylar	1					
C367	1-108-614-11	0.001	100 V	mylar		C527	1-121-405-11	33	50 V	elect
C368	1-108-620-11	0.0033	100 V	mylar		C528	1-121-738-11	10	50 V	elect
C369	1-108-620-11	0.0033	100 V	mylar		C529	1-108-626-11	0.01	100 V	mylar
C370	1-108-614-11	0.001	100 V	mylar		C530	1-108-626-11	0.01	100 V	mylar
C371	1-108-634-11	0.047	100 V	mylar	1			,		

				1					
Ref. No.	Part No.	Descrip	tion		Ref. No.	Part No.	Descrip	tion	
0621	1 121 150 11	10	1637	1: 4 -1	0010	1 121 201 11		50 ¥7	
C531	1-131-158-11	10	16 V	solid aluminum	C616	1-121-391-11	1	50 V	elect
C532	1-121-479-11	22	16 V	elect	C617	1-101-810-11	100 p	500 V	
C533	1-127-024-11	2.2	10 V	solid aluminum	C618	1-102-074-11	0.001	100 **	
C534	1-121-391-11	1	50 V	elect	C619	1-108-638-11	0.1	100 V	mylar
C535	1-121-917-11	20	100 V	elect	0(21	1 120 720 11	0.1	<b>600 *</b> 7	~-1
C536	1-102-100-11	0.0022			C621	1-129-739-11 1-108-745-11	0.1	630 Vac	
C536	1-102-100-11	47	16 V	alast	C622	1-108-745-11	0.22	300 Vac	myıar
C537				elect	C701	1 110 227 11	0.47	500 ¥1	•
C538 C539	1-121-450-11	2.2	50 V	elect	C701	1-119-327-11	0.47	500 V	elect
C539 C540	1-121-450-11	2.2 330	50 V 6.3 V	elect	C702	1-102-050-11	0.01	500 V	
C340	1-121-751-11	330	0.3 V	elect	G901	1 120 005 11	16000	1 1-37	6:1
C541	1-102-002-11	680 p	500 V		C801	1-129-885-11	16000 p	1 kV	film
C541 C542	1-102-002-11	0.0068	200 V		C802	1-129-936-11	7500 p	1.5 kV	mylar
C545	1-108-690-31		200 V	mylar	C804	1-102-155-11	330 p	2 kV	included in High Voltage Rectifier
C343	1-102-973-11	100 p							Block Ass'y
C546	1-102-973-11	100 p			C805	1-102-219-11	680 p	1 kV	
C548	1-102-973-11	100 p	2 kV						
C549	1-102-133-11	100 p	500 V		C806	1-102-038-11	0.001	500 V	
C550	1-102-973-11	100 p	300 V		C807	1-102-820-11	330 p		
C330	1-102-973-11	100 þ			C808	1-102-038-11	0.001	500 V	
C551	1-102-074-11	0.001			C810	1-102-153-11	100 p	2 kV	
C552	1-101-004-11	0.001							
C332	1-101-004-11	0.001			C901	1-105-953-13	0.01	400 V	mylar
C556	1-102-978-11	220 p							
C557	1-102-978-11	0.033	100 V	mylar	VC201	1-141-138-11	5 p		trimmer
C558	1-108-032-11	10	25 V	elect					
6338	1-121-390-11	10	23 V	elect	SG701	1-519-063-11	Spark Ga	p, 1.5 kV	
C571	1-102-074-11	0.001			SG702	1-519-063-11	Spark Ga	p, 1.5 kV	
C371	1-102-074-11	0.001			SG703	1-519-063-11	Spark Ga	p, 1.5 kV	
C601	1-108-745-11	0.22	300 Vac	mylor	SG704	1-519-063-11	Spark Ga	p, 1.5 kV	
C602	1-102-240-11	0.0047	250 V	iliyiai	SG705	1-519-063-11	Spark Ga	p, 1.5 kV	
C603	1-102-240-11	22	250 V 350 V	elect	SG706	1-519-063-11	Spark Ga	p, 1.5 kV	
	1-125-022-11	220 + 47		elect					
C00+(A · B)	1-123-080-11	220 + 47	313 ¥	elect		RES	ISTORS		
C606	1-123-024-11	33	160 V	elect					
C607	1-125-024-11	0.0022	100 V 100 V	mylar	All resistors	are in ohms. $\pm 5$	%, ¼ W an	d carbon t	ype resistors
C608	1-121-189-11	1	160 V	elect	(except spec	cial type) are omi	tted. Checl	k schemati	c diagram for
C609	1-101-810-11	100 p	500 V	ciect	resistance va	lues. All variable	and adjust	able resist	ors have char-
C610	1-101-610-11	0.001	200 V	mylar	acteristic cu	rve B, unless othe	rwise noted	i. $k = 1000$	M = 1000 k
0010	1 100 000 11	0.001	200 ¥	Iliyiai					
C611	1-121-395-11	4.7	25 V	elect	R188	1-206-688-11	10 k	2W	metal oxide
C612	1-106-212-12	0.047	100 V	mylar					(nonflammable)
C613	1-105-961-13	0.047	400 V	mylar	R190	1-206-688-11	10 k	2 W	metal oxide
C614	1-105-961-13	0.047	400 V	mylar					(nonflammable)
					R192	1-206-688-11	10 k	2W .	metal oxide
									(nonflammable)
				ļ	R263	1-244-857-11	220	½ W	carbon
					R264	1-244-859-11	270	½ W	carbon

## **KV-1310R**

					•				
Ref. No.	Part No.	Descrip	otion		Ref. No.	Part No.	Descrip	otion	
			1/					1,	
R395	1-244-869-11	680	½ W	carbon	R705	1-202-635-11	390 k	½ W	composition
R396	1-244-865-11	470	½ W	carbon	R706	1-202-581-11	2.2 k	½ W	composition
					R707	1-202-603-11	18 k	½ W	composition
R508	1-206-017-11	1.8 k	2 W	metal oxide	R708	1-202-637-11	470 k	½ W	composition
D 5 2 2	1 202 (05 11	22.1-	16 117		R801	1-244-895-11	8.2 k	½ W	
R523	1-202-605-11	22 k	½ W	composition	R802	1-206-915-11			high voltage
R524	1-207-903-11	10	0.25 A	fuse	İ				included in High
R527	1-206-111-11	39 k	1 W	metal oxide					Voltage Rectifiei
R527 R529	1-200-111-11	4.7	1 44	carbon					Block Ass'y
K329	1-211-490-11	4.7		(nonflammable)		1-206-916-11	1.8	3 W	metal oxide (nonflammable)
R530	1-207-982-11	2.7	0.65 A	fuse		1-206-918-11	2.7	3 W	metal oxide
	•				*R803		4.5		(nonflammable)
R549	1-207-471-11	4.7	⅓ W	wirewound		1-206-921-11	4.7	3 W	metal oxide (nonflammable)
			•			1-206-922-11	5.6	3 W	metal oxide
R552	1-206-110-11	33 k	1 W	metal oxide					(nonflammable)
R554	1-244-901-11	15 k	½ W	carbon		1-206-925-11	10	3 W	metal oxide
R558	1-244-829-11	15	½ W	carbon		1-206-927-11	15	3 W	(nonflammable) metal oxide
					*R804	1 200-527-11	13	J W	(nonflammable)
R561	1-244-873-11	1 k	½ W	carbon		1-206-928-11	18	3 W	metal oxide
R563	1-244-897-11	10 k	½ W	carbon		1-206-929-11	22	3 W	(nonflammable) metal oxide
R564	1-244-901-11	15 k	½ W	carbon		1 200 /2/ 11		5 ,,	(nonflammable)
R565	1-244-899-11	12 k	½ W	carbon	R805	1-202-597-11	10 k	½ W	composition
R566	1-211-932-11	27	1∕8 W	carbon (nonflammable)				•	included in High
R573	1-206-080-11	82	1 W	metal oxide					Voltage Rectifie: Block Ass'y
R574	1-206-688-11	10 k	2 W	metal oxide					DIOCK ASS y
1077	1 200 000 11	101	2 (!	(nonflammable)	R806	1-217-007-11	1	3 W	wirewound
R601	1-207-657-11	10	3 W	wirewound		·			
	1 20, 05, 11	10	<i>3</i> "	(nonflammable)	R901	1-217-521-11	18	20 W	wirewound
R603	1-207-657-11	10	3 W	wirewound					
R604	1 204 922 11	221-	5 W	(nonflammable)	VR151	1-222-515-00	, •	ıstable; B.	
K004	1-206-823-11	33 k	3 W	metal oxide (nonflammable)	VR152	1-222-515-00		ustable; G.	
R605	1-244-865-11	470	½ W		VR153	1-222-515-00		ıstable; R.	
R606	1-244-885-11	3.3 k	½ W	carbon	VR154 VR155	1-222-344-00		stable; B.E	
R608	1-206-483-11	68	2 W	metal oxide	VR155 VR156	1-222-344-00		stable; G.I	
				(nonflammable)	VKISO	1-222-344-00	J K, auju	stable; R.I	OKG
D/11	1 044 001 11	151	1/- 11/2	•	VR201	1-222-516-00	470 adii	ıstable; V.	TIL ACC
R611	1-244-901-11	15 k	½ W	carbon	VR201	1-222-516-00	· . •	· ·	D TRAP ADJ
R616	1-206-737-11	3.3 k	3 W	metal oxide (nonflammable)	VR203	1-222-517-00	. •		T OUT ADJ
R618	1-206-698-11	27 k	2 W	metal oxide	VR204	1-222-518-00		justable; U	
				(nonflammable)	, , , , ,	1 0 10 00	, uu	,4014010, 0	nige
R620	1-206-700-11	33 k	2 W	metal oxide (nonflammable)	VR301	1-222-515-00	330. adiu	istable; SM	IB ADJ
R622	1-211-931-11	68	1∕8 W	carbon	VR302	1-222-515-00		istable; R-	
K022	1-211-931-11	00	/0 W	(nonflammable)			<b>,,</b>	,	
R623	1-244-865-11	470	½ W	carbon	∗ to be se	elected			
R624	1-244-903-11	18 k	½ W	carbon	1				
D ( 20	1 207 042 11	20	a						
R628	1-207-942-11	39	7 W	wirewound					
R701	1 202 501 11	2 2 1-	16 w						
R701 R702	1-202-581-11 1-202-581-11	2.2 k 2.2 k	½ W ⅓ W	composition					
R702 R703	1-202-381-11	2.2 k 220 k	72 W 1/2 W	composition composition					
R703	1-202-621-11	220 k 100 k	1/2 W	composition					
AL / UT	1 202-021-11	100 K	12 11	Composition	1				

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	
VR501	1-222-725-00	20 k, adjustable; H.FREQ	S491	1-514-897-00	Switch, pushbutton;	AFT
VR502	1-223-017-00	50, adjustable; TILT	S902	1-515-119-00	Circuit Breaker, 1.25	
VR503	1-223-017-00	50, adjustable; H.CENT	1		,	
VR504	1-222-725-00	20 k, adjustable; PIN ADJ	SP	1-502-299-00	Speaker, 8 ohms	
VR505	1-222-344-00	5 k, adjustable; H.SIZE				
VR506	1-222-512-00	10 k, adjustable; V.SIZE		1-452-014-00	Magnet, disk; 10 mm	dia
VR507	1-222-512-00	10 k, adjustable; V.LIN	1	1-452-038-00	Magnet, vertical conv	ergence
VR508	1-222-784-00	3.3 k, adjustable; V.BIAS		1-452-039-81	Magnet, beam alignm	ent
				1-452-058-00	Magnet, horizontal co	
VR601	1-222-517-00	1 k, adjustable; 110 V ADJ		1-452-094-11	Magnet, disk; adjusta	- 0
VR602	1-222-518-00	4.7 k, adjustable; PP ADJ		1-506-187-62	Coaxial Cable with Pl	
				1-506-324-11	Coaxial Cable with Pl	ug
VR701	1-222-809-00	500 k, adjustable; SCRN		1-526-086-00	Socket, picture tube	
VR801	1-222-509-00	500 k, adjustable; H.STAT		1-526-130-61	Cap, anode	
		included in High Voltage		1-526-144-00	Cap, FBT	
		Rectifier Block Ass'y		1-526-131-52	Cap, convergence	
VR901	1-222-383-00	1 k x 2, variable; PICTURE		1-533-087-00	Holder, fuse	
VR902	1-222-388-00	20 k, variable; VER		1-534-587-00	Cord, power	
•	1-222-624-00	50 k-D, variable; PULL ON/VOL		1-534-630-23	Coaxial Cable with Pl	ug
VR904	1-222-484-00	1 k, variable; BRIGHT		1-536-296-00	Lug, terminal; 1L3L1	
VR905	1-222-388-00	20 k, variable; COLOR		1-536-358-12	Terminal Board Ass'y	, antenna
				including		
	MISCEL	LANEOUS		C101 1-	102-238-11 47 p	250 Vac
				C102 1-	102-238-11 47 p	250 Vac
DC801	1-453-028-21	High Voltage Rectifier Block Ass'y		C103 1-	102-238-11 47 p	250 Vac
including	;			C104 1-	102-238-11 47 p	250 Vac
C804		330 p 2 kV		C105 1-	102-239-11 470 p	250 Vac
R802	1-206-915-0	0 19 MΩ + 31.7 MΩ, high voltage			102-239-11 470 p	250 Vac
R805	1-202-597-1		1		102-239-11 470 p	250 Vac
VR801	1-222-509-0				102-239-11 470 p	250 Vac
,	3-705-343-0	,			417-033-00 Balun	
		Dia, modulating case		T102 1-	417-040-00 RF Inpi	ıt
F601	1-532-203-00	Fuse, 2 AT		1-536-393-00	Lug, terminal; 1L1	
F602	1-532-078-00	Fuse, 1 AT		8-735-301-05	Picture Tube, 330 AB	22
				X-4308-815-0	Permalloy Ass'y	
NE901	1-519-060-00	Neon Lamp, 110 Vdc (UHF)				
NE902	1-519-060-00	Neon Lamp, 110 Vdc (VHF)				

PACKING MATERIALS AND ACCESSORIES						
Part No.	Description					
Y-2201-631-0	VHF Telescopic Dipole Antenna (AN14-E)					
3-701-352-00 Bag, polyethylene						
4-303-350-00	303-350-00 Sheet, protection					
4-305-112-00	Cushion, left					
4-305-113-00	Cushion, right					
4-310-811-00	Carton					
4-491-115-11	4-491-115-11 Manual, instruction; Czech					
4-495-502-11	Manual, instruction; Polish, Russian, French and English					

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